

09/509559

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SEQUENCE LISTING

(1) GENERAL INFORMATION:

(i) APPLICANT:

- (A) NAME: Wolf-Georg Forssmann
- (B) STREET: Feodor-Lynen-Strasse 31
- (C) CITY: Hannover
- (E) COUNTRY: Germany
- (F) POSTAL CODE: 30625

(ii) TITLE OF THE INVENTION: Cadherin derived growth factor and its use

(iii) NUMBER OF SEQUENCES: 14

(iv) COMPUTER READABLE FORM:

- (A) MEDIUM TYPE: Floppy disk
- (B) COMPUTER: IBM PC compatible
- (C) OPERATING SYSTEM: PC-DOS/MS-DOS
- (D) SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPA)

(2) INFORMATION FOR SEQ ID NO: 1:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 123 Amino acids
- (B) TYPE: Amino acid
- (C) STRANDEDNESS: unknown
- (D) TOPOLOGY: unknown

(ii) MOLECULE TYPE: Peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

Cys His Pro Gly Phe Asp Ala Glu Ser Tyr Thr Phe Thr Val Pro Arg
1 5 10 15

Arg His Leu Glu Arg Gly Arg Val Leu Gly Arg Val Asn Phe Cys Thr
20 25 30

Gly Arg Gln Arg Thr Ala Tyr Phe Ser Leu Asp Thr Arg Phe Lys Val
35 40 45

Gly Thr Asp Gly Val Ile Thr Val Lys Arg Pro Leu Arg Phe His Asn
50 55 60

Pro Gln Ile His Phe Leu Val Tyr Ala Trp Asp Ser Thr Tyr Arg Lys
65 70 75 80

Phe Ser Thr Lys Val Thr Leu Asn Gly His His His Arg Pro Pro Pro
85 90 95

- 1 -

His Gln Ala Ser Val Ser Gly Ile Gln Ala Glu Leu Leu Thr Phe Pro
100 105 110

Asn Ser Ser Pro Gly Leu Arg Arg Gln Lys Arg
115 120

(2) INFORMATION FOR SEQ ID NO: 2:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 132 Amino acids
- (B) TYPE: Amino acid
- (C) STRANDEDNESS: unknown
- (D) TOPOLOGY: unknown

(ii) MOLEKULE TYPE: Peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

Glu Ala Ser Gly Glu Ile Ala Leu Cys Lys Thr Gly Phe Pro Glu Asp
1 5 10 15

Val Tyr Ser Ala Val Leu Ser Lys Asp Val His Glu Gly Gln Pro Leu
20 25 30

Leu Asn Val Phe Ser Asn Cys Asn Gly Lys Arg Lys Val Gln Tyr Glu
35 40 45

Ser Ser Glu Pro Ala Asp Phe Lys Val Asp Glu Asp Gly Met Val Tyr
50 55 60

Ala Val Arg Ser Phe Pro Leu Ser Ser Glu His Ala Lys Phe Leu Ile
65 70 75 80

Tyr Ala Gln Asp Lys Glu Thr Gln Glu Lys Trp Gln Lys Leu Ser Leu
85 90 95

Lys Pro Thr Leu Thr Glu Glu Ser Val Lys Glu Ser Ala Glu Val Glu
100 105 110

Glu Ile Val Phe Pro Arg Gln Phe Ser Lys His Ser Gly His Leu Gln
115 120 125

Arg Gln Lys Arg
130

(2) INFORMATION FOR SEQ ID NO: 3:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 78 Amino acids
- (B) TYPE: Amino acid
- (C) STRANDEDNESS: unknown
- (D) TOPOLOGY: unknown

(ii) MOLEKULE TYPE: Peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

Cys Arg Ala Val Phe Arg Glu Ala Glu Val Thr Leu Glu Ala Gly Gly
1 5 10 15

Ala Glu Gln Glu Pro Gly Gln Ala Leu Gly Lys Val Phe Met Gly Gln
20 25 30

Glu Pro Ala Leu Phe Ser Thr Asp Asn Asp Asp Phe Thr Val Arg Asn
35 40 45

Gly Glu Thr Val Gln Glu Arg Arg Ser Leu Lys Glu Arg Asn Pro Leu
50 55 60

Lys Ile Phe Pro Ser Lys Arg Ile Leu Arg Arg His Lys Arg
65 70 75

(2) INFORMATION FOR SEQ ID NO: 4:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 144 Amino acids
- (B) TYPE: Amino acid
- (C) STRANDEDNESS: unknown
- (D) TOPOLOGY: unknown

(ii) MOLEKULE TYPE: Peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

His Asn Glu Asp Leu Thr Thr Arg Glu Thr Cys Lys Ala Gly Phe Ser
1 5 10 15

Glu Asp Asp Tyr Thr Ala Leu Ile Ser Gln Asn Ile Leu Glu Gly Glu
20 25 30

Lys Leu Leu Gln Val Lys Ser Ser Cys Val Gly Thr Lys Gly Thr Gln
35 40 45

Tyr Glu Thr Asn Ser Met Asp Phe Lys Gly Ala Asp Gly Thr Val Phe
50 55 60

Ala Thr Arg Glu Leu Gln Val Pro Ser Glu Gln Val Ala Phe Thr Val
65 70 75 80

Thr Ala Trp Asp Ser Gln Thr Ala Glu Lys Trp Asp Ala Val Leu Val
85 90 95

Ala Gln Thr Ser Ser Pro His Ser Gly His Lys Pro Gln Lys Gly Lys
100 105 110

Lys Val Val Ala Leu Asp Pro Ser Pro Pro Pro Lys Asp Thr Leu Leu
115 120 125

Pro Trp Pro Gln His Gln Asn Ala Asn Gly Leu Arg Arg Arg Lys Arg
130 135 140

(2) INFORMATION FOR SEQ ID NO: 5:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 22 Amino acids
- (B) TYPE: Amino acid
- (C) STRANDEDNESS: unknown
- (D) TOPOLOGY: unknown

(ii) MOLEKULE TYPE: Peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:

Ala Gly Ala Asn Pro Ala Gln Arg Asp Thr His Ser Leu Leu Pro Thr
1 5 10 15
His Arg Arg Gln Lys Arg
20

(2) INFORMATION FOR SEQ ID NO: 6:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 35 Amino acids
- (B) TYPE: Amino acid
- (C) STRANDEDNESS: unknown
- (D) TOPOLOGY: unknown

(ii) MOLEKULE TYPE: Peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:

Thr Leu Ser Thr Pro Leu Ser Lys Arg Thr Ser Gly Phe Pro Ala Lys
1 5 10 15
Lys Arg Ala Leu Glu Leu Ser Gly Asn Ser Lys Asn Glu Leu Asn Arg
20 25 30
Ser Lys Arg
35

(2) INFORMATION FOR SEQ ID NO: 7:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 33 Amino acids
- (B) TYPE: Amino acid
- (C) STRANDEDNESS: unknown
- (D) TOPOLOGY: unknown

(ii) MOLEKULE TYPE: Peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:

Thr Leu Ser Thr Pro Leu Ser Lys Arg Thr Ser Gly Phe Pro Ala Lys
1 5 10 15

Lys Arg Ala Leu Glu Leu Ser Gly Asn Ser Lys Asn Glu Leu Asn Arg
20 25 30
Ser

(2) INFORMATION FOR SEQ ID NO: 8:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 54 Amino acids
- (B) TYPE: Amino acid
- (C) STRANDEDNESS: unknown
- (D) TOPOLOGY: unknown

(ii) MOLEKULE TYPE: Peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:

Met Leu Leu Asp Leu Trp Thr Pro Leu Ile Ile Leu Trp Ile Thr Leu
1 5 10 15
Pro Pro Cys Ile Tyr Met Ala Pro Met Asn Gln Ser Gln Val Leu Met
20 25 30
Ser Gly Ser Pro Leu Glu Leu Asn Ser Leu Gly Glu Glu Gln Arg Ile
35 40 45
Leu Asn Arg Ser Lys Arg
50

(2) INFORMATION FOR SEQ ID NO: 9:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 31 Amino acids
- (B) TYPE: Amino acid
- (C) STRANDEDNESS: unknown
- (D) TOPOLOGY: unknown

(ii) MOLEKULE TYPE: Peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:

Phe Ala Pro Glu Arg Arg Gly His Leu Arg Pro Ser Phe His Gly His
1 5 10 15
His Glu Lys Gly Lys Glu Gly Gln Val Leu Gln Arg Ser Lys Arg
20 25 30

(2) INFORMATION FOR SEQ ID NO: 10:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 26 Amino acids
- (B) TYPE: Amino acid
- (C) STRANDEDNESS: unknown

- (D) TOPOLOGY: unknown
(ii) MOLEKULE TYPE: Peptide
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:

Glu Arg Arg Gly His Leu Arg Pro Ser Phe His Gly His His Glu Lys
1 5 10 15
Gly Lys Glu Gly Gln Val Leu Gln Arg Ser
20 25

(2) INFORMATION FOR SEQ ID NO: 11:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 31 Amino acids
(B) TYPE: Amino acid
(C) STRANDEDNESS: unknown
(D) TOPOLOGY: unknown
(ii) MOLEKULE TYPE: Peptide
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:

Gln Pro Gln Pro Gln Gln Thr Leu Ala Thr Glu Pro Arg Glu Asn Val
1 5 10 15
Ile His Leu Pro Gly Gln Arg Ser His Phe Gln Arg Val Lys Arg
20 25 30

(2) INFORMATION FOR SEQ ID NO: 12:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 29 Amino acids
(B) TYPE: Amino acid
(C) STRANDEDNESS: unknown
(D) TOPOLOGY: unknown
(ii) MOLEKULE TYPE: Peptide
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:

Gln Pro Gln Pro Gln Gln Thr Leu Ala Thr Glu Pro Arg Glu Asn Val
1 5 10 15
Ile His Leu Pro Gly Gln Arg Ser His Phe Gln Arg Val
20 25

(2) INFORMATION FOR SEQ ID NO: 13:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 129 Amino acids
(B) TYPE: Amino acid

- (C) STRANDEDNESS: unknown
(D) TOPOLOGY: unknown
(ii) MOLEKULE TYPE: Peptide
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:

Glu Asp Leu Asp Cys Thr Pro Gly Phe Gln Gln Lys Val Phe His Ile
1 5 10 15
Asn Gln Pro Ala Glu Phe Ile Glu Asp Gln Ser Ile Leu Asn Leu Thr
20 25 30
Phe Ser Asp Cys Lys Gly Asn Asp Lys Leu Arg Tyr Glu Val Ser Ser
35 40 45
Pro Tyr Phe Lys Val Asn Ser Asp Gly Gly Leu Val Ala Leu Arg Asn
50 55 60
Ile Thr Ala Val Gly Lys Thr Leu Phe Val His Ala Arg Thr Pro His
65 70 75 80
Ala Glu Phe Asp Met Ala Glu Leu Val Ile Val Gly Gly Lys Asp Ile
85 90 95
Ser Leu Gln Asp Ile Phe Lys Phe Ala Arg Thr Ser Pro Val Pro Arg
100 105 110
Gln Lys Arg Pro Ser Val Leu Leu Ser Leu Phe Ser Leu Ala Cys
115 120 125
Leu

- (2) INFORMATION FOR SEQ ID NO: 14:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 39 Amino acids
(B) TYPE: Amino acid
(C) STRANDEDNESS: unknown
(D) TOPOLOGY: unknown
(ii) MOLEKULE TYPE: Peptide
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:

Val Pro Gly Trp Arg Arg Pro Thr Thr Leu Tyr Pro Trp Arg Arg Ala
1 5 10 15
Pro Ala Leu Ser Arg Val Arg Arg Ala Trp Val Ile Pro Pro Ile Ser
20 25 30
Val Ser Glu Asn His Lys Arg
35